

**DIARYL SULFIDE DERIVATIVE AND PEST CONTROLLING AGENT**

**Patent number:** JP2000026421  
**Publication date:** 2000-01-25  
**Inventor:** TOYABE KEIJI; ITO MINORU; NISHIYAMA KIYOTOSHI;  
ASAHIDA MITSU HARU; WADA NOBUHIDE; YANO YUKO;  
KOMATSU MASA AKI; FUJISAWA TOYOICHI; SHIMAZU  
HOTOKU  
**Applicant:** KUMIAI CHEMICAL INDUSTRY CO.; IHARA CHEMICAL IND  
CO  
**Classification:**  
**- international:** C07D213/70; A01N43/08; A01N43/10; A01N43/40; A01N43/54;  
A01N43/653; A01N43/76; A01N43/78; A01N43/80; C07D213/71;  
C07D213/85; C07D213/89; C07D249/12; C07D261/10;  
C07D263/46; C07D275/03; C07D277/36; C07D277/40;  
C07D277/48; C07D277/56; C07D277/64; C07D307/68;  
C07D333/34; C07D333/36; C07D333/38; C07D409/04  
**- european:**  
**Application number:** JP19990019418 19990128  
**Priority number(s):** JP19990019418 19990128; JP19980030324 19980129

**Abstract of JP2000026421**

**PROBLEM TO BE SOLVED:** To produce a new compound useful as an insecticide capable manifesting remarkable effects especially on *Plutella xylostella*, *Chilo suppressalis*, etc., which are agricultural and horticultural pests, having high efficacies even in a small dose and excellent in safety. **SOLUTION:** This compound is represented by formula I [Q denotes N or the like; X1 denotes H or the like; X2 denotes H or the like; the heteroaryl denotes a group represented by formula II or the like; R1 and R2 denote each H or the like; however, at least one thereof denotes SOnR4; R4 denotes a 1-4C alkyl or the like; (n) denote 0-2, with the proviso that X1 and X2 are not simultaneously H or the like], e.g. 2-(2,6-dichloro-4-trifluoromethylphenyl)-5- isopropylthiazole. The compound represented by formula I is produced by reacting, e.g. a compound represented by formula II (a group represented by formula IV is the above heteroaryl) [e.g. 2-(2,6-dichloro-4- trifluoromethylphenyl)-5-mercaptothiazole] with a compound represented by the formula; R4L1 (L1 is a halogen or the like) (e.g. isopropyl iodide) in the presence of a base such as potassium carbonate in a solvent.

---

Data supplied from the esp@cenet database - Worldwide